

AMENDMENTS TO THE CLAIMS

Claims 1-3 (Canceled)

4. (New) A reproduction apparatus for reproducing information recorded on a machine readable medium, wherein the information comprises at least a first video object and a second video object, and the second video object is to be played back after the first video object, said reproduction apparatus comprising:

buffering means for storing information read from the medium;

detecting means for detecting a boundary between the first video object and the second video object based on a specific value of a system clock reference; and

system decoding means for demultiplexing at least some of the information stored in said buffering means and outputting at least one of a video stream, an audio stream, and a sub-picture stream resulting from the demultiplexing.

5. (New) A reproduction method for reproducing information recorded on a machine readable medium, wherein the information comprises at least a first video object and a second video object, and the second video object is to be played back after the first video object, said reproduction method comprising:

storing information read from the medium in a buffer;

detecting a boundary between the first video object and the second video object based on a specific value of a system clock reference; and

demultiplexing at least some of the information stored in the buffer and outputting at least one of a video stream, an audio stream, and a sub-picture stream resulting from said demultiplexing.

6. (New) A reproduction apparatus for reproducing information recorded on a machine readable medium, wherein the information comprises at least a first video object and a second video object, and the second video object is to be played back after the first video object, said reproduction apparatus comprising:

- a buffer operable to store information read from the medium;

- an SCR change detector operable to detect a boundary between the first video object and the second video object based on a specific value of a system clock reference;

- a system decoder operable to demultiplex at least some of the information stored in said buffer and output at least one of a video stream, an audio stream, and a sub-picture stream resulting from the demultiplexing.